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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the

application:

1-18. (Cancelled)

19. (Previously Presented) An antibody or an antigen binding fragment thereof comprising

a complementarity determining region-H3 (CDR-H3) sequence selected from the group

consisting of: SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 30, and SEQ ID NO: 31.

20. (Previously Presented) An antibody or an antigen binding fragment thereof comprising

a complementarity determining region-L3 (CDR-L3) sequence selected from the group

consisting of: SEQ ID NO: 32, SEQ ID NO: 33 and SEQ ID NO: 34.

21. (Previously Presented) An antibody or an antigen binding fragment thereof comprising

a complementarity determining region-H3 (CDR-H3) sequence selected from the group

consisting of: SEQ ID NO: 27, SEQ ID NO: 28, SEQ ID NO: 30, and SEQ ID NO: 31 and a

complementarity determining region-L3 (CDR-L3) sequence selected from the group consisting

of: SEQ ID NO: 32, SEQ ID NO: 33 and SEQ ID NO: 34.

22. (Cancelled)

23. (Currently Amended) The method of claim 22 40, wherein the B cells are peripheral B-

cell lymphocytes or B cells from the spleen.

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24. (Currently Amended) The method of claim 22 40, wherein the B cells are isolated from

blood.

25. (Currently Amended) The method of claim 22 40, wherein the antigen is an

immunogen.

26. (Currently Amended) The method of claim 22 40, wherein the patient displays an

antibody response detectable by Western blotting in response to infection by Clostridium

difficile.

27. (Currently Amended) The method of claim 22 40, wherein the patient has recovered

from infection by Clostridium difficile.

28. (Currently Amended) The method of claim 22_40, wherein step (i) comprises

sequencing DNA or RNA from the B cells and step (ii) comprises determining putative amino

acid sequences based on the DNA or RNA sequences and wherein the set of sequences is

detected among the putative amino acid sequences.

29. (Currently Amended) The method of claim 22 40, wherein step (ii) further comprises

identifying CDR2 regions and detecting a set of candidate sequences among the CDR2 regions.

30. (Previously Presented) The method of claim 29, wherein step (ii) further comprises

identifying CDR1 regions and detecting a set of candidate sequences among the CDR1 regions.

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31. (Currently Amended) The method of claim 22 40, wherein step (ii) further comprises

determining at least one factor from the group consisting of: the strain of Clostridium difficile

infecting the patient; the time point at which the B cells are isolated during infection; the age of

the patient; the sex of the patient; and the race of the patient; and correlating the factor with the

candidate sequence.

32. (Currently Amended) The method of claim 22 40, wherein the B cells are isolated from

the patient at a plurality of time points during infection.

33. (Currently Amended) The method of claim 22_40, wherein the B cells are isolated from

at least two patients, one of whom has recovered from infection by Clostridium difficile, and one

of whom has not recovered from infection by Clostridium difficile, wherein sequences from the

recovered patient are compared with sequences from the patient who has not recovered to

identify sequences that are effective to clear the infection.

34. (Currently Amended) The method of claim 22 40, wherein the B cells are isolated from

at least two patients, wherein each patient has been infected by a strain of Clostridium difficile

different from the strain that has infected the other and wherein sequences from one patient are

compared with sequences from the other patient to identify a set of candidate sequences for

antibodies, each of which is specific against at least one shared antigen produced by the different

strains of Clostridium difficile.

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35. (Currently Amended) A method of producing a database which identifies candidate

sequences for antibodies specific against at least one antigen produced by Clostridium difficile,

comprising the steps of:

(i) performing the method according to claim 22 40; and

(ii) storing the data produced by said method in said database.

36. (Currently Amended) A method of generating a report which identifies candidate

sequences for antibodies specific against at least one antigen produced by Clostridium difficile,

comprising the steps of:

(i) performing the method according to claim 22 40; and

(ii) producing a report comprising the data produced by said method.

37. (Previously Presented) A method for treating an infection by Clostridium difficile in a

patient, the method comprising administering to the patient a pharmaceutically effective amount

of the antibody or the antigen binding fragment thereof of claim 19.

38. (Previously Presented) A method for treating an infection by Clostridium difficile in a

patient, the method comprising administering to the patient a pharmaceutically effective amount

of the antibody or the antigen binding fragment thereof of claim 20.

39. (Previously Presented) A method for treating an infection by Clostridium difficile in a

patient, the method comprising administering to the patient a pharmaceutically effective amount

of the antibody or the antigen binding fragment thereof of claim 21.

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40. (Previously Presented) A method for identifying candidate antigen-specific sequences

of antibodies specific against at least one antigen produced by Clostridium difficile, the method

comprising:

(i) obtaining B cells from at least one patient whose immune system has been exposed to

the antigen and sequencing from the B-cells at least complementarity determining region-3

(CDR3) regions of variable heavy chains (VH) or variable light chains (VL), or both;

(ii) detecting a set of sequences that occur in total at a frequency of at least one percent,

wherein the set of sequences include a dominant sequence and sequences of at least 80%

homology to the dominant sequence; and

(iii) confirming that an antibody or an antigen binding fragment of an antibody

comprising the dominant sequence of step (ii) binds specifically to the antigen produced by

Clostridium difficile.

41. (Previously Presented) A method for identifying candidate antigen-specific sequences

of antibodies specific against at least one antigen produced by Clostridium difficile, the method

comprising:

(i) obtaining B cells from two or more patients whose immune systems have been

exposed to the antigen and sequencing from the B-cells of both patients at least complementarity

determining region-3 (CDR3) regions of variable heavy chains (VH) or variable light chains

(VL), or both;

(ii) detecting a set of sequences that occur in the two or more patients in total at a

frequency of at least one percent, wherein the set of sequences include a dominant sequence and

sequences of at least 80% homology to the dominant sequence; and

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(iii) confirming that an antibody or an antigen binding fragment of an antibody

comprising the dominant sequence of step (ii) binds specifically to the antigen produced by

Clostridium difficile.

42. (Previously Presented) A method for identifying candidate antigen-specific sequences

of antibodies specific against at least one antigen produced by Clostridium difficile, the method

comprising:

(i) obtaining B cells from at least one patient whose immune system has been exposed to

the antigen and sequencing from the B-cells at least complementarity determining region-3

(CDR3) regions of variable heavy chains (VH) or variable light chains (VL), or both;

(ii) comparing the sequences of step (i) with sequences of complementarity determining

region-3 (CDR3) regions of variable heavy chains (VH) or variable light chains (VL), or both,

from a patient that has not been exposed to the antigen;

(iii) detecting a set of sequences that occur in total at a frequency of at least one percent

in the sequences identified in step (i) and at a frequency of less than one percent in the sequences

from the patient that has not been exposed to the antigen, wherein the set of sequences include a

dominant sequence and sequences of at least 80% homology to the dominant sequence; and

(iv) confirming that an antibody or an antigen binding fragment of antibody comprising

the dominant sequence of step (iii) binds specifically to the antigen produced by Clostridium

difficile.

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43. (Previously Presented) A method for identifying candidate antigen-specific sequences

of antibodies specific against at least one antigen produced by Clostridium difficile, the method

comprising:

(i) obtaining B cells from at least one patient prior to exposure of their immune system to

the antigen and sequencing from the B-cells at least complementarity determining region-3

(CDR3) regions of variable heavy chains (VH) or variable light chains (VL), or both;

(ii) obtaining B cells from the patient after their immune system has been exposed to the

antigen, and sequencing from the B-cells at least complementarity determining region-3 (CDR3)

regions of variable heavy chains (VH) or variable light chains (VL), or both as selected in step

(i);

(iii) detecting a set of sequences that occur in total at a frequency of at least one percent

in the sequences identified in step (ii) and at an increased frequency with respect to the

sequences identified in step (i), wherein the set of sequences include a dominant sequence and

sequences of at least 80% homology to the dominant sequence; and

(iv) confirming that an antibody or an antigen binding fragment of an antibody

comprising the dominant sequence of step (iii) binds specifically to the antigen produced by

Clostridium difficile.